

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



PC10349AGPR.ST25.txt  
SEQUENCE LISTING

<110> Pfizer Inc.

Fidock, Mark D.

Robas, Nicola M.

RECEIVED

JUL 31 2002

TECH CENTER 1600/2900

B  
<120> Phosphodiesterase Enzymes

<130> PC10349AGPR

<140> 09/663,542

<141> 2000-09-15

<150> US 60/177,517

<151> 2000-01-21

<150> GB 9922124.4

<151> 1999-09-17

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 684

<212> PRT

<213> Homo sapiens

<400> 1

Met Leu Lys Gln Ala Arg Arg Pro Leu Phe Arg Asn Val Leu Ser Ala  
1 5 10 15

Thr Gln Trp Lys Lys Val Lys Ile Thr Arg Leu Val Gln Ile Ser Gly  
20 25 30

Ala Ser Leu Ala Glu Lys Gln Glu Lys His Gln Asp Phe Leu Ile Gln  
Page 1

35

40

45

Arg Gln Thr Lys Thr Lys Asp Arg Arg Phe Asn Asp Glu Ile Asp Lys  
 50 55 60  
 Leu Thr Gly Tyr Lys Thr Lys Ser Leu Leu Cys Met Pro Ile Arg Ser  
 65 70 75 80  
 Ser Asp Gly Glu Ile Ile Gly Val Ala Gln Ala Ile Asn Lys Ile Pro  
 85 90 95  
 Glu Gly Ala Pro Phe Thr Glu Asp Asp Glu Lys Val Met Gln Met Tyr  
 100 105 110  
 Leu Pro Phe Cys Gly Ile Ala Ile Ser Asn Ala Gln Leu Phe Ala Ala  
 115 120 125  
 Ser Arg Lys Glu Tyr Glu Arg Ser Arg Ala Leu Leu Glu Val Val Asn  
 130 135 140  
 Asp Leu Phe Glu Glu Gln Thr Asp Leu Glu Lys Ile Val Lys Lys Ile  
 145 150 155 160  
 Met His Arg Ala Gln Thr Leu Leu Lys Cys Glu Arg Cys Ser Val Leu  
 165 170 175  
 Leu Leu Glu Asp Ile Glu Ser Pro Val Val Lys Phe Thr Lys Ser Phe  
 180 185 190  
 Glu Leu Met Ser Pro Lys Cys Ser Ala Asp Ala Glu Asn Ser Phe Lys  
 195 200 205  
 Glu Ser Met Glu Lys Ser Ser Tyr Ser Asp Trp Leu Ile Asn Asn Ser  
 210 215 220  
 Ile Ala Glu Leu Val Ala Ser Thr Gly Leu Pro Val Asn Ile Ser Asp  
 225 230 235 240  
 Ala Tyr Gln Asp Pro Arg Phe Asp Ala Glu Ala Asp Gln Ile Ser Gly  
 245 250 255  
 Phe His Ile Arg Ser Val Leu Cys Val Pro Ile Trp Asn Ser Asn His  
 260 265 270  
 Gln Ile Ile Gly Val Ala Gln Val Leu Asn Arg Leu Asp Gly Lys Pro  
 275 280 285  
 Phe Asp Asp Ala Asp Gln Arg Leu Phe Glu Ala Phe Val Ile Phe Cys  
 290 295 300

Gly Leu Gly Ile Asn Asn Thr Ile Met Tyr Asp Gln Val Lys Lys Ser  
 305 310 315 320  
 Trp Ala Lys Gln Ser Val Ala Leu Asp Val Leu Ser Tyr His Ala Thr  
 325 330 335  
 Cys Ser Lys Ala Glu Val Asp Lys Phe Lys Ala Ala Asn Ile Pro Leu  
 340 345 350  
 Val Ser Glu Leu Ala Ile Asp Asp Ile His Phe Asp Asp Phe Ser Leu  
 355 360 365  
 Asp Val Asp Ala Met Ile Thr Ala Ala Leu Arg Met Phe Met Glu Leu  
 370 375 380  
 Gly Met Val Gln Lys Phe Lys Ile Asp Tyr Glu Thr Leu Cys Arg Trp  
 385 390 395 400  
 Leu Leu Thr Val Arg Lys Asn Tyr Arg Met Val Leu Tyr His Asn Trp  
 405 410 415  
 Arg His Ala Phe Asn Val Cys Gln Leu Met Phe Ala Met Leu Thr Thr  
 420 425 430  
 Ala Gly Phe Gln Asp Ile Leu Thr Glu Val Glu Ile Leu Ala Val Ile  
 435 440 445  
 Val Gly Cys Leu Cys His Asp Leu Asp His Arg Gly Thr Asn Asn Ala  
 450 455 460  
 Phe Gln Ala Lys Ser Gly Ser Ala Leu Ala Gln Leu Tyr Gly Thr Ser  
 465 470 475 480  
 Ala Thr Leu Glu His His His Phe Asn His Ala Val Met Ile Leu Gln  
 485 490 495  
 Ser Glu Gly His Asn Ile Phe Ala Asn Leu Ser Ser Lys Glu Tyr Ser  
 500 505 510  
 Asp Leu Met Gln Leu Leu Lys Gln Ser Ile Leu Ala Thr Asp Leu Thr  
 515 520 525  
 Leu Tyr Phe Glu Arg Arg Thr Glu Phe Phe Glu Leu Val Ser Lys Gly  
 530 535 540  
 Glu Tyr Asp Trp Asn Ile Lys Asn His Arg Asp Ile Phe Arg Ser Met  
 545 550 555 560  
 Leu Met Thr Ala Cys Asp Leu Gly Ala Val Thr Lys Pro Trp Glu Ile  
 565 570 575

PC10349AGPR.ST25.txt

Ser Arg Gln Val Ala Glu Leu Val Thr Ser Glu Phe Phe Glu Gln Gly  
580 585 590

Asp Arg Glu Arg Leu Glu Leu Lys Leu Thr Pro Ser Ala Ile Phe Asp  
595 600 605

Arg Asn Arg Lys Asp Glu Leu Pro Arg Leu Gln Leu Glu Trp Ile Asp  
610 615 620

Ser Ile Cys Met Pro Leu Tyr Gln Ala Leu Val Lys Val Asn Val Lys  
625 630 635 640

Leu Lys Pro Met Leu Asp Ser Val Ala Thr Asn Arg Ser Lys Trp Glu  
645 650 655

Glu Leu His Gln Lys Arg Leu Leu Ala Ser Thr Ala Ser Ser Ser  
660 665 670

Pro Ala Ser Val Met Val Ala Lys Glu Asp Arg Asn  
675 680

<210> 2

<211> 2078

<212> DNA

<213> Homo sapiens

<400> 2

gggccgagat gctgaagcag gcaagaagac ctttattcag aaatgtgctc agtgccacac	60
agtggaacaaa ggtgaaaatc acaagactgg tccaaatctc tggggcctct ttggctgaaa	120
aacaggaaaa gcaccaggat tttcttatac agaggcaaac aaaaacaaag gatcgacgat	180
tcaatgatga aatcgacaag ctgactggat acaagacaaa atcattattg tgcatgccta	240
tccgaagcag tgatggtgag attattggtg tggcccaagc gataaataag attcctgaag	300
gagctccatt tactgaagat gatgaaaaag ttatgcagat gtatcttcca ttttgtggaa	360
tcgccatata taacgctcag ctctttgctg cctcaaggaa agaataatgaa agaagcagag	420
ctttgctaga ggtggttaat gacctctttg aagaacagac tgacctggag aaaattgtca	480
agaaaataat gcatcgggcc caaactctgc tgaaatgtga gcgctgttct gttttactcc	540
tagaggacat cgaatcacca gtggtgaaat ttaccaaadc ctttgaattg atgtcccaa	600
agtgacagtgc tgatgctgag aacagtttca aagaaagcat ggagaaatca tcatactccg	660
actggctaata aaataacagc attgctgagc tggttgcttc aacaggcctt ccagtgaaca	720
tcagtgatgc ctaccaggat ccgcgctttg atgcagaggc agaccagata tctggttttc	780
acataagatc tgttctttgt gtcctattt ggaatagcaa ccaccaaata attggagtgg	840

PC10349AGPR.ST25.txt

```

ctcaagtgtt aaacagactt gatgggaaac cttttgatga tgcagatcaa cgactttttg 900
aggcttttgt catcttttgt ggacttggca tcaacaacac aattatgtat gatcaagtga 960
agaagtcctg ggccaagcag tctgtggctc ttgatgtgct atcataccat gcaacatgtt 1020
caaaagctga agttgacaag tttaaggcag ccaacatccc tctggtgtca gaacttgcca 1080
tcgatgacat tcattttgat gacttttctc tcgacgttga tgccatgatc acagctgctc 1140
tccggatgtt catggagctg gggatggtag agaaatttaa aattgactat gagacactgt 1200
gtaggtggct tttagacagt agggaaaaact atcggatggg tctataccac aactggagac 1260
atgccttcaa cgtgtgtcag ctgatgttcg cgatgttaac cactgctggg tttcaagaca 1320
ttctgaccga ggtggaaatt ttagcggtag ttgtgggatg cctgtgtcat gacctcgacc 1380
acaggggaac caacaatgcc ttccaagcta agagtggctc tgccctggcc caactctatg 1440
gaacctctgc taccttggag catcaccatt tcaaccacgc cgtgatgatc cttcaaagtg 1500
agggtcacia tatctttgct aacctgtcct ccaaggaata tagtgacctt atgcagcttt 1560
tgaagcagtc aatattggca acagacctca cgctgtactt tgagaggaga actgaattct 1620
ttgaacttgt cagtaaagga gaatacgatt ggaacatcaa aaaccatcgt gatataattc 1680
gatcaatgtt aatgacagcc tgtgacctg gagccgtgac caaaccgtgg gagatctcca 1740
gacaggtggc agaacttgta accagtgagt tcttcgaaca aggagatcgg gagagattag 1800
agctcaaact cactccttca gcaatttttg atcgggaaccg gaaggatgaa ctgcctcggg 1860
tgcaactgga gtggattgat agcatctgca tgcctttgta tcaggcactg gtgaagggtca 1920
acgtgaaact gaagccgatg ctagattcag tagctacaaa cagaagtaag tgggaagagc 1980
tacacaaaaa acgactgctg gcctcaactg cctcatcctc ctcccctgcc agtgttatgg 2040
tagccaagga agacaggaac taataactcg aggcattgc 2078

```

<210> 3

<211> 576

<212> PRT

<213> Homo sapiens

<400> 3

Met Gln Met Tyr Leu Pro Phe Cys Gly Ile Ala Ile Ser Asn Ala Gln  
1 5 10 15

Leu Phe Ala Ala Ser Arg Lys Glu Tyr Glu Arg Ser Arg Ala Leu Leu  
20 25 30

Glu Val Val Asn Asp Leu Phe Glu Glu Gln Thr Asp Leu Glu Lys Ile  
35 40 45

PC10349AGPR.ST25.txt

Val Lys Lys Ile Met His Arg Ala Gln Thr Leu Leu Lys Cys Glu Arg  
50 55 60

Cys Ser Val Leu Leu Leu Glu Asp Ile Glu Ser Pro Val Val Lys Phe  
65 70 75 80

Thr Lys Ser Phe Glu Leu Met Ser Pro Lys Cys Ser Ala Asp Ala Glu  
85 90 95

Asn Ser Phe Lys Glu Ser Met Glu Lys Ser Ser Tyr Ser Asp Trp Leu  
100 105 110

Ile Asn Asn Ser Ile Ala Glu Leu Val Ala Ser Thr Gly Leu Pro Val  
115 120 125

Asn Ile Ser Asp Ala Tyr Gln Asp Pro Arg Phe Asp Ala Glu Ala Asp  
130 135 140

Gln Ile Ser Gly Phe His Ile Arg Ser Val Leu Cys Val Pro Ile Trp  
145 150 155 160

Asn Ser Asn His Gln Ile Ile Gly Val Ala Gln Val Leu Asn Arg Leu  
165 170 175

Asp Gly Lys Pro Phe Asp Asp Ala Asp Gln Arg Leu Phe Glu Ala Phe  
180 185 190

Val Ile Phe Cys Gly Leu Gly Ile Asn Asn Thr Ile Met Tyr Asp Gln  
195 200 205

Val Lys Lys Ser Trp Ala Lys Gln Ser Val Ala Leu Asp Val Leu Ser  
210 215 220

Tyr His Ala Thr Cys Ser Lys Ala Glu Val Asp Lys Phe Lys Ala Ala  
225 230 235 240

Asn Ile Pro Leu Val Ser Glu Leu Ala Ile Asp Asp Ile His Phe Asp  
245 250 255

Asp Phe Ser Leu Asp Val Asp Ala Met Ile Thr Ala Ala Leu Arg Met  
260 265 270

Phe Met Glu Leu Gly Met Val Gln Lys Phe Lys Ile Asp Tyr Glu Thr  
275 280 285

Leu Cys Arg Trp Leu Leu Thr Val Arg Lys Asn Tyr Arg Met Val Leu  
290 295 300

Tyr His Asn Trp Arg His Ala Phe Asn Val Cys Gln Leu Met Phe Ala  
305 310 315 320

Met Leu Thr Thr Ala Gly Phe Gln Asp Ile Leu Thr Glu Val Glu Ile  
 325 330 335  
 Leu Ala Val Ile Val Gly Cys Leu Cys His Asp Leu Asp His Arg Gly  
 340 345 350  
 Thr Asn Asn Ala Phe Gln Ala Lys Ser Gly Ser Ala Leu Ala Gln Leu  
 355 360 365  
 Tyr Gly Thr Ser Ala Thr Leu Glu His His His Phe Asn His Ala Val  
 370 375 380  
 Met Ile Leu Gln Ser Glu Gly His Asn Ile Phe Ala Asn Leu Ser Ser  
 385 390 395 400  
 Lys Glu Tyr Ser Asp Leu Met Gln Leu Leu Lys Gln Ser Ile Leu Ala  
 405 410 415  
 Thr Asp Leu Thr Leu Tyr Phe Glu Arg Arg Thr Glu Phe Phe Glu Leu  
 420 425 430  
 Val Ser Lys Gly Glu Tyr Asp Trp Asn Ile Lys Asn His Arg Asp Ile  
 435 440 445  
 Phe Arg Ser Met Leu Met Thr Ala Cys Asp Leu Gly Ala Val Thr Lys  
 450 455 460  
 Pro Trp Glu Ile Ser Arg Gln Val Ala Glu Leu Val Thr Ser Glu Phe  
 465 470 475 480  
 Phe Glu Gln Gly Asp Arg Glu Arg Leu Glu Leu Lys Leu Thr Pro Ser  
 485 490 495  
 Ala Ile Phe Asp Arg Asn Arg Lys Asp Glu Leu Pro Arg Leu Gln Leu  
 500 505 510  
 Glu Trp Ile Asp Ser Ile Cys Met Pro Leu Tyr Gln Ala Leu Val Lys  
 515 520 525  
 Val Asn Val Lys Leu Lys Pro Met Leu Asp Ser Val Ala Thr Asn Arg  
 530 535 540  
 Ser Lys Trp Glu Glu Leu His Gln Lys Arg Leu Leu Ala Ser Thr Ala  
 545 550 555 560  
 Ser Ser Ser Ser Pro Ala Ser Val Met Val Ala Lys Glu Asp Arg Asn  
 565 570 575



&lt;211&gt; 1925

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

```

gcaataggaa gccatggaac agccagaaag gttatgcaga tgtatcttcc attttgtgga      60
atcgccatat ctaacgctca gctctttgct gcctcaagga aagaatatga aagaagcaga      120
gctttgctag aggtgggttaa tgacctcttt gaagaacaga ctgacctgga gaaaattgtc      180
aagaaaataa tgcatacggc ccaaactctg ctgaaatgtg aacgctgttc tgttttactc      240
ctagaggaca tcgaatcacc agtgggtgaaa ttaccaaatt cctttgaatt gatgtcccca      300
aagtgcagtg ctgatgctga gaacagtttc aaagaaagca tggagaaatc atcatactcc      360
gactggctaa taaataacag cattgctgag ctggttgctt caacaggcct tccagtgaac      420
atcagtgatg cctaccagga tccgcgcttt gatgcagagg cagaccagat atctggtttt      480
cacataagat ctgttctttg tgtccctatt tggaatagca accaccaaatt aattggagtg      540
gctcaagtgt taaacagact tgatgggaaa cttttgatg atgcggatca acgacttttt      600
gaggcttttg tcatcttttg tggacttggc atcaacaaca caattatgta tgatcaagtg      660
aagaagtcct gggccaagca gtctgtggct ctgatgtgc tatcatacca tgcaacatgt      720
tcaaaagctg aagttgacaa gtttaaggca gccaacatcc ctctggtgtc agaacttgcc      780
atcgaatgaca ttcatcttga tgacttttct ctgcagcttg atgcatgat cacagctgct      840
ctccggatgt tcatggagct ggggatggta cagaaattta aaattgacta tgagacactg      900
tgtaggtggc ttttgacagt gaggaaaaac tatcggatgg ttctatacca caactggaga      960
catgccttca acgtgtgtca gctgatgttc gcgatgttaa ccactgctgg gtttcaagac     1020
attctgaccg aggtggaaat tttagcggtg attgtgggat gcctgtgtca tgacctcgac     1080
cacaggggaa ccaacaatgc cttccaagct aagagtggct ctgccctggc ccaactctat     1140
ggaacctctg ctaccttggg gcatcaccat ttcaaccacg ccgtgatgat ccttcaaagt     1200
gagggtcaca atatctttgc taacctgtcc tccaaggaat atagtgcctt tatgcagctt     1260
ttgaagcagt caatattggc aacagacctc acgctgtact ttgagaggag aactgaattc     1320
tttgaacttg tcagtaaagg agaatacgat tggaacatca aaaaccatcg tgatatattt     1380
cgatcaatgt taatgacagc ctgtgacctt ggagccgtga ccaaaccgtg ggagatctcc     1440
agacagggtg cagaacttgt aaccagttag ttcttcgaac aaggagatcg ggagagatta     1500
gagctcaaac tcaactcctc agcaattttt gatcggaacc ggaaggatga actgcctcgg     1560
ttgcaactgg agtggattga tagcatctgc atgcctttgt atcaggcact ggtgaaggtc     1620
aacgtgaaac tgaagccgat gctagattca gtagctacaa acagaagtaa gtgggaagag     1680
ctacaccaaa aacgactgct ggcctcaact gcctcatcct cctcccctgc cagtgttatg     1740

```

PC10349AGPR.ST25.txt

gtagccaagg aagacaggaa ctaaactcc aggtcagctg cagctgcaaa atgactacag 1800  
cctgaagggc cattttcagt ccagcaatgt catccttttg ttcttttagc tcagaaagac 1860  
ctaacatctc aaggatgcac tgggaaccat gcctgggctt tcaccttgaa gcatgggtcag 1920  
cagca 1925

<210> 5

<211> 490

<212> PRT

<213> Homo sapiens

<400> 5

Met Ser Pro Lys Cys Ser Ala Asp Ala Glu Asn Ser Phe Lys Glu Ser  
1 5 10 15

Met Glu Lys Ser Ser Tyr Ser Asp Trp Leu Ile Asn Asn Ser Ile Ala  
20 25 30

Glu Leu Val Ala Ser Thr Gly Leu Pro Val Asn Ile Ser Asp Ala Tyr  
35 40 45

Gln Asp Pro Arg Phe Asp Ala Glu Ala Asp Gln Ile Ser Gly Phe His  
50 55 60

Ile Arg Ser Val Leu Cys Val Pro Ile Trp Asn Ser Asn His Gln Ile  
65 70 75 80

Ile Gly Val Ala Gln Val Leu Asn Arg Leu Asp Gly Lys Pro Phe Asp  
85 90 95

Asp Ala Asp Gln Arg Leu Phe Glu Ala Phe Val Ile Phe Cys Gly Leu  
100 105 110

Gly Ile Asn Asn Thr Ile Met Tyr Asp Gln Val Lys Lys Ser Trp Ala  
115 120 125

Lys Gln Ser Val Ala Leu Asp Val Leu Ser Tyr His Ala Thr Cys Ser  
130 135 140

Lys Ala Glu Val Asp Lys Phe Lys Ala Ala Asn Ile Pro Leu Val Ser  
145 150 155 160

Glu Leu Ala Ile Asp Asp Ile His Phe Asp Asp Phe Ser Leu Asp Val  
165 170 175

Asp Ala Met Ile Thr Ala Ala Leu Arg Met Phe Met Glu Leu Gly Met  
Page 9

180

185

190

Val Gln Lys Phe Lys Ile Asp Tyr Glu Thr Leu Cys Arg Trp Leu Leu  
 195 200 205  
 Thr Val Arg Lys Asn Tyr Arg Met Val Leu Tyr His Asn Trp Arg His  
 210 215 220  
 Ala Phe Asn Val Cys Gln Leu Met Phe Ala Met Leu Thr Thr Ala Gly  
 225 230 235 240  
 Phe Gln Asp Ile Leu Thr Glu Val Glu Ile Leu Ala Val Ile Val Gly  
 245 250 255  
 Cys Leu Cys His Asp Leu Asp His Arg Gly Thr Asn Asn Ala Phe Gln  
 260 265 270  
 Ala Lys Ser Gly Ser Ala Leu Ala Gln Leu Tyr Gly Thr Ser Ala Thr  
 275 280 285  
 Leu Glu His His His Phe Asn His Ala Val Met Ile Leu Gln Ser Glu  
 290 295 300  
 Gly His Asn Ile Phe Ala Asn Leu Ser Ser Lys Glu Tyr Ser Asp Leu  
 305 310 315 320  
 Met Gln Leu Leu Lys Gln Ser Ile Leu Ala Thr Asp Leu Thr Leu Tyr  
 325 330 335  
 Phe Glu Arg Arg Thr Glu Phe Phe Glu Leu Val Ser Lys Gly Glu Tyr  
 340 345 350  
 Asp Trp Asn Ile Lys Asn His Arg Asp Ile Phe Arg Ser Met Leu Met  
 355 360 365  
 Thr Ala Cys Asp Leu Gly Ala Val Thr Lys Pro Trp Glu Ile Ser Arg  
 370 375 380  
 Gln Val Ala Glu Leu Val Thr Ser Glu Phe Phe Glu Gln Gly Asp Arg  
 385 390 395 400  
 Glu Arg Leu Glu Leu Lys Leu Thr Pro Ser Ala Ile Phe Asp Arg Asn  
 405 410 415  
 Arg Lys Asp Glu Leu Pro Arg Leu Gln Leu Glu Trp Ile Asp Ser Ile  
 420 425 430  
 Cys Met Pro Leu Tyr Gln Ala Leu Val Lys Val Asn Val Lys Leu Lys  
 435 440 445

Pro Met Leu Asp Ser Val Ala Thr Asn Arg Ser Lys Trp Glu Glu Leu  
 450 455 460

His Gln Lys Arg Leu Leu Ala Ser Thr Ala Ser Ser Ser Ser Pro Ala  
 465 470 475 480

Ser Val Met Val Ala Lys Glu Asp Arg Asn  
 485 490

<210> 6

<211> 1784

<212> DNA

<213> Homo sapiens

<400> 6  
 tggaaagatg ttacttcatc tcccagggtt gctcactgca aatacaatcc tgagaactga 60  
 actagggcct taaagtcctg acatgcatgg cttggttttg tggattgcct ctctcaacag 120  
 gtggtgaaat ttaccaaadc ctttgaattg atgtcccca agtgcagtgc tgatgctgag 180  
 aacagtttca aagaaagcat ggagaaatca tcatactccg actggctaata aaataacagc 240  
 attgctgagc tggttgcttc aacaggcctt ccagtgaaca tcagtgatgc ctaccaggat 300  
 ccgcgctttg atgcagaggc agaccagata tctggttttc acataagatc tgttctttgt 360  
 gtccctatatt ggaatagcaa ccaccaaata attggagtgg ctcaagtgtt aaacagactt 420  
 gatgggaaac cttttgatga tgcagatcaa cgactttttg aggctttttgt catctttttgt 480  
 ggacttggca tcaacaacac aattatgtat gatcaagtga agaagtcctg ggccaagcag 540  
 tctgtggctc ttgatgtgct atcataccat gcaacatgtt caaaagctga agttgacaag 600  
 tttaaggcag ccaacatccc tctgggtgtc gaacttgcca tcgatgacat tcattttgat 660  
 gactttttctc tcgacgttga tgccatgatc acagctgctc tccggatgtt catggagctg 720  
 gggatggtac agaaatttaa aattgactat gagacactgt gtaggtggct tttgacagtg 780  
 agggaaaact atcggatggt tctataccac aactggagac atgccttcaa cgtgtgtcag 840  
 ctgatgttcg cgatgttaac cactgctggg tttcaagaca ttctgaccga ggtggaaatt 900  
 tttagcgtga ttgtgggatg cctgtgtcat gacctgacc acaggggaac caacaatgcc 960  
 ttccaagcta agagtggctc tgccctggcc caactctatg gaacctctgc taccttggag 1020  
 catcaccatt tcaaccacgc cgtgatgatc cttcaaagtg agggtcacaa tatctttgct 1080  
 aacctgtcct ccaaggaata tagtgacctt atgcagcttt tgaagcagtc aatattggca 1140  
 acagacctca cgctgtactt tgagaggaga actgaattct ttgaacttgt cagtaaagga 1200  
 gaatacgatt ggaacatcaa aaaccatcgt gatataattc gatcaatgtt aatgacagcc 1260  
 tgtgaccttg gagccgtgac caaacctggg gagatctcca gacaggtggc agaacttgta 1320

PC10349AGPR.ST25.txt

accagtgagt tcttcgaaca aggagatcgg gagagattag agctcaaact cactccttca 1380  
gcaatttttg atcggaaccg gaaggatgaa ctgcctcggg tgcaactgga gtggattgat 1440  
agcatctgca tgccttttga tcaggcactg gtgaagggtca acgtgaaact gaagccgatg 1500  
ctagattcag tagctacaaa cagaagtaag tgggaagagc tacaccaaaa acgactgctg 1560  
gcctcaactg cctcatcctc ctcccctgcc agtggttatgg tagccaagga agacaggaac 1620  
taaacctcca ggtcagctgc agctgcaaaa tgactacagc ctgaagggcc attttcagtc 1680  
cagcaatgtc atccttttgt tcttttagct cagaaagacc taacatctca aggatgcact 1740  
gggaaccatg cctgggcttt caccttgaag catggtcagc agca 1784

<210> 7

<211> 194

<212> PRT

<213> Homo sapiens

<400> 7

Met Leu Lys Gln Ala Arg Arg Pro Leu Phe Arg Asn Val Leu Ser Ala  
1 5 10 15  
Thr Gln Trp Lys Lys Val Lys Ile Thr Arg Leu Val Gln Ile Ser Gly  
20 25 30  
Ala Ser Leu Ala Glu Lys Gln Glu Lys His Gln Asp Phe Leu Ile Gln  
35 40 45  
Arg Gln Thr Lys Thr Lys Asp Arg Arg Phe Asn Asp Glu Ile Asp Lys  
50 55 60  
Leu Thr Gly Tyr Lys Thr Lys Ser Leu Leu Cys Met Pro Ile Arg Ser  
65 70 75 80  
Ser Asp Gly Glu Ile Ile Gly Val Ala Gln Ala Ile Asn Lys Ile Pro  
85 90 95  
Glu Gly Ala Pro Phe Thr Glu Asp Asp Glu Lys Val Met Gln Met Tyr  
100 105 110  
Leu Pro Phe Cys Gly Ile Ala Ile Ser Asn Ala Gln Leu Phe Ala Ala  
115 120 125  
Ser Arg Lys Glu Tyr Glu Arg Ser Arg Ala Leu Leu Glu Val Val Asn  
130 135 140  
Asp Leu Phe Glu Glu Gln Thr Asp Leu Glu Lys Ile Val Lys Lys Ile  
145 150 155 160

PC10349AGPR.ST25.txt

Met His Arg Ala Gln Thr Leu Leu Lys Cys Glu Arg Cys Ser Val Leu  
 165 170 175

Leu Leu Glu Asp Ile Glu Ser Pro Val Val Lys Phe Thr Lys Ser Phe  
 180 185 190

Glu Leu

<210> 8  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggtccgagat gctgaagcag gcaagaagac ctttattcag aaatgtgctc agtgccacac 60  
 agtggaaaaa ggtgaaaatc acaagactgg tccaaatctc tggggcctct ttggctgaaa 120  
 aacaggaaaa gcaccaggat tttcttatac agaggcaaac aaaaacaaag gatcgacgat 180  
 tcaatgatga aatcgacaag ctgactggat acaagacaaa atcattattg tgcatgccta 240  
 tccgaagcag tgatggtgag attattggtg tggcccaagc gataaataag attcctgaag 300  
 gagctccatt tactgaagat gatgaaaaag ttatgcagat gtatcttcca ttttgtggaa 360  
 tcgccatatac taacgctcag ctctttgctg cctcaaggaa agaatatgaa agaagcagag 420  
 ctt 423

<210> 9  
 <211> 37  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
 ggccacgcgt cgactagtagtac tttttttttt ttttttt 37

<210> 10  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 10

ggccacgcgt cgactagtac

20

&lt;210&gt; 11

&lt;211&gt; 23

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 11

cagaacagcg ttcacatttc agc

23

&lt;210&gt; 12

&lt;211&gt; 24

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

aggtcagtct gttcttcaaa gagg

24

&lt;210&gt; 13

&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

cagtaaattgg agctccttca gg

22

&lt;210&gt; 14

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

ttgtgcatgc ctatccgaag cagttatggt

30

&lt;210&gt; 15

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 15  
gcacgggtccg agatgctgaa gcagg

25

<210> 16

<211> 21

<212> DNA

<213> Homo sapiens

<400> 16  
agatatctgg tctgcctctg c

21

B1  
conver